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› TP-Link ER706W-4G Omada 4G+ Cat6 AX3000 Gigabit VPN Gateway Router User Manual

## TP-Link ER706W-4G

# TP-Link ER706W-4G Omada 4G+ Cat6 AX3000 Gigabit VPN Gateway Router User Manual

Model: ER706W-4G

Brand: TP-Link

## 1. PRODUCT OVERVIEW

The TP-Link ER706W-4G is an Omada 4G+ Cat6 AX3000 Gigabit VPN Gateway Router designed to provide robust and flexible network connectivity. It integrates Wi-Fi 6 AX3000 dual-band wireless capabilities with 4G+ LTE cellular connectivity, making it suitable for various deployment scenarios requiring reliable internet access and advanced networking features.



Image: Front view of the TP-Link ER706W-4G Omada VPN Gateway Router, showing the status LEDs, SIM card slot, WAN/LAN ports, and detachable antennas.

## Key Features:

- **4G+ Cat6 Support:** Provides cellular internet access with speeds up to 300 Mbps using a Nano SIM card.
- **AX3000 Dual-Band Wi-Fi 6:** Offers high-speed wireless connectivity with 2402 Mbps on 5 GHz and 574 Mbps on 2.4 GHz bands.
- **6 Gigabit Ethernet Ports:** Ensures high-speed wired connections for multiple devices.
- **5 High-Gain Detachable Antennas:** Enhances Wi-Fi signal coverage and strength.
- **Omada Mesh:** Seamlessly integrates with Omada EAPs that support mesh technology for extended coverage.
- **High-Security VPN:** Supports multiple VPN protocols including IPSec, SSL, WireGuard, OpenVPN, PPTP, and L2TP VPN.

## 2. PACKAGE CONTENTS

Verify that your package contains the following items:

- TP-Link ER706W-4G VPN Gateway Router
- Installation Guide

If any item is missing or damaged, please contact your retailer or TP-Link support.

## 3. PHYSICAL OVERVIEW

### Front Panel



Image: Angled front view of the ER706W-4G, highlighting the status indicators, SIM card slot, and Ethernet ports.

The front panel features LED indicators for system status (SYS), SFP, WLAN, and LTE signal strength. It also includes a Nano SIM card slot, a WAN port, and five WAN/LAN configurable Gigabit Ethernet ports (1-5), plus a dedicated LAN port

(6) and a reset button.

## Rear Panel



Image: Rear view of the ER706W-4G, showing the Wi-Fi antenna connectors, power input, and grounding terminal.

The rear panel includes connectors for the detachable Wi-Fi antennas, a grounding terminal, and the power input port (12V – 2.0A).

## 4. SETUP

### 4.1 Hardware Installation

1. **Install Antennas:** Attach the five high-gain detachable antennas to their respective connectors on the router. Ensure they are securely fastened.
2. **Insert Nano SIM Card:** With the router powered off, carefully insert a Nano SIM card into the designated slot on the front panel until it clicks into place. Ensure the SIM card is oriented correctly.
3. **Connect Power:** Connect the provided power adapter to the router's power input port and then plug it into a power outlet. The router will power on automatically.
4. **Connect to Internet (Optional Wired WAN):** If using a wired internet connection, connect an Ethernet cable from your modem or existing network to the WAN port on the router.
5. **Connect Devices:** Connect your computer or other network devices to the router's LAN ports using Ethernet cables, or connect wirelessly using the default Wi-Fi network name (SSID) and password found on the product label.

### 4.2 Initial Configuration

The ER706W-4G can be managed via the Omada App or a web browser.

- **Using Omada App:** Download the TP-Link Omada app from your mobile device's app store. Follow the in-app instructions to discover and set up your router.
- **Using Web Browser:** Connect your computer to the router. Open a web browser and enter the default IP address (usually 192.168.0.1 or 192.168.1.1) or [tplinkwifi.net](http://tplinkwifi.net). Follow the on-screen wizard to complete the initial setup,

including setting up your Wi-Fi network and administrator password.



Image: Diagram illustrating the router's capability to provide 4G+ internet access.

## 5. OPERATING THE ROUTER

### 5.1 Internet Connectivity

The ER706W-4G supports both 4G+ LTE and wired WAN connections. It can operate as a primary internet source via the inserted SIM card or as a backup for a wired connection, providing redundancy.



Image: Illustration of the 4G+ Cat6 Gateway, showing how it aggregates two channels for enhanced speed.

### 5.2 Wi-Fi Network

The router broadcasts a dual-band Wi-Fi 6 network. You can configure the Wi-Fi name (SSID), password, and security settings through the Omada App or web management interface. Wi-Fi 6 (802.11ax) offers improved speeds, capacity, and efficiency, especially in environments with many connected devices.

## Always-Online with AX3000 WiFi 6

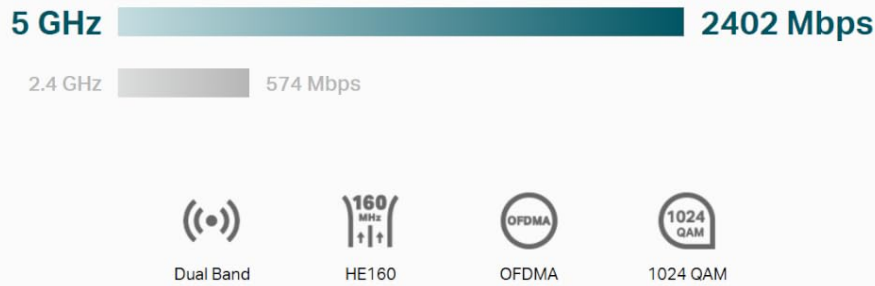


Image: Visual representation of AX3000 Wi-Fi 6 capabilities, indicating 2402 Mbps on 5 GHz and 574 Mbps on 2.4 GHz.

### 5.3 VPN Functionality

The ER706W-4G supports various VPN protocols, allowing secure remote access to your network or secure connections between multiple sites. Refer to the online user guide for detailed configuration steps for IPSec, SSL, WireGuard, OpenVPN, PPTP, and L2TP VPN.

### 5.4 Omada SDN Integration

This router is part of the TP-Link Omada Software Defined Networking (SDN) platform. It can be centrally managed alongside other Omada devices (like Access Points and Switches) via an Omada Hardware Controller, Software Controller, or Omada Cloud-Based Controller. This provides a unified management experience for your entire network.

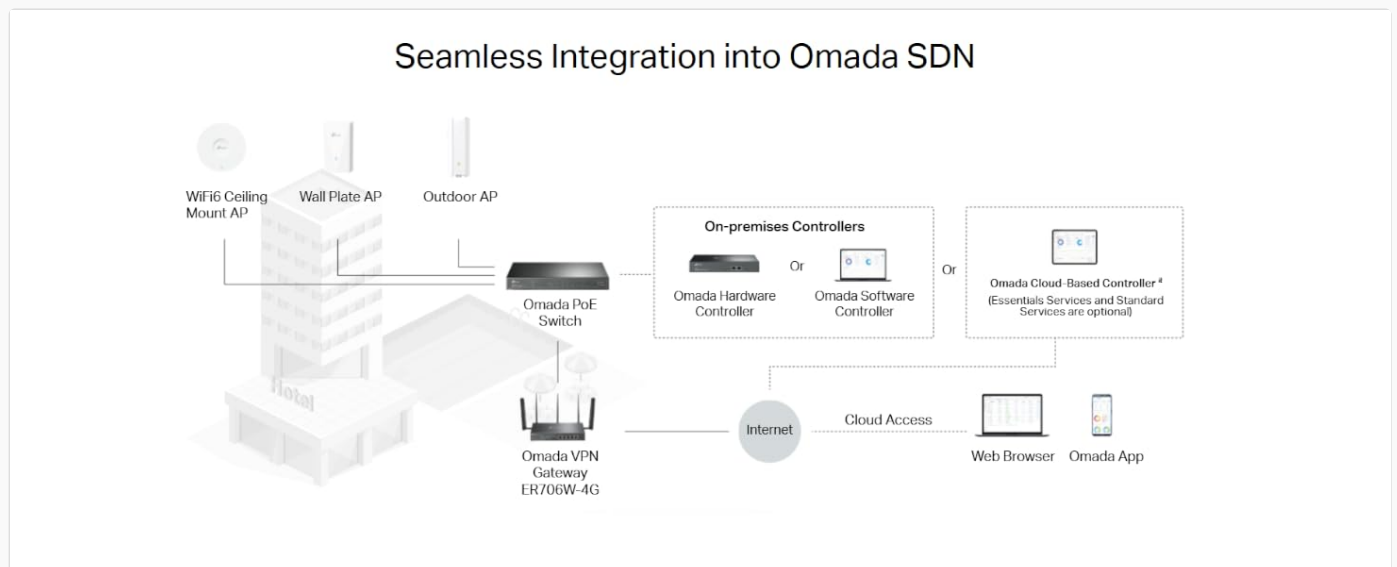


Image: Diagram showing the ER706W-4G integrated into an Omada SDN network, connecting to switches, access points, and controllers.

## 6. MAINTENANCE

- **Firmware Updates:** Regularly check the TP-Link official website for the latest firmware updates. Updating firmware can improve performance, add new features, and enhance security. Follow the instructions provided with the firmware update package.
- **Regular Reboot:** Periodically rebooting the router can help clear temporary issues and maintain optimal

performance.

- **Physical Cleaning:** Keep the router in a clean, well-ventilated area. Dust accumulation can lead to overheating. Use a soft, dry cloth to clean the device.
- **Backup Configuration:** It is recommended to back up your router's configuration settings regularly, especially before performing firmware updates or major changes.

## 7. TROUBLESHOOTING

- **No Internet Access:**
  - Check the SIM card insertion and ensure it is active and has data allowance.
  - Verify that the WAN cable (if used) is securely connected to the modem and the router.
  - Check the LED indicators on the front panel for SYS, WLAN, and LTE status. Refer to the online user guide for LED behavior explanations.
  - Reboot the router and your modem (if applicable).
- **Wi-Fi Not Connecting:**
  - Ensure the Wi-Fi function is enabled in the router's settings.
  - Verify the Wi-Fi network name (SSID) and password.
  - Move closer to the router to check signal strength.
- **Slow Internet Speed:**
  - Check LTE signal strength indicators. Poor signal can lead to slower speeds.
  - Ensure no other devices are consuming excessive bandwidth.
  - Test speed with a wired connection to rule out Wi-Fi issues.
- **Factory Reset:** If the router is not functioning correctly or you forget the login password, you can perform a factory reset. With the router powered on, press and hold the Reset button on the front panel for approximately 5-10 seconds until the LEDs flash. The router will revert to its factory default settings.

## 8. SPECIFICATIONS

| Feature                         | Detail                                         |
|---------------------------------|------------------------------------------------|
| Model Name                      | ER706W-4G                                      |
| Package Dimensions              | 14.76 x 7.17 x 3.23 inches                     |
| Item Weight                     | 3 pounds                                       |
| Special Feature                 | Access Point Mode                              |
| Wireless Communication Standard | 2.4 GHz Radio Frequency, 5 GHz Radio Frequency |
| Compatible Devices              | Personal Computer                              |
| Recommended Uses For Product    | Business                                       |
| Included Components             | ER706W-4G, Installation Guide                  |
| Connectivity Technology         | Wi-Fi                                          |

| Feature      | Detail                                |
|--------------|---------------------------------------|
| Antenna Type | Internal (Wi-Fi), Detachable (4G LTE) |

## 9. WARRANTY INFORMATION

TP-Link products are covered by a limited warranty. For detailed warranty terms and conditions, please refer to the official TP-Link website or the warranty card included with your product. Keep your purchase receipt for warranty service.

## 10. SUPPORT

For technical support, troubleshooting assistance, or further information, please contact TP-Link customer service:



Image: TP-Link support details including phone, website, and email.

- **Phone:** (866) 225-8139
- **Website:** [myproducts.tp-link.com/us](https://myproducts.tp-link.com/us)
- **Email:** [support.USA@tp-link.com](mailto:support.USA@tp-link.com)

You can also find FAQs and additional resources on the official TP-Link support website.

### ASK A QUESTION ABOUT THIS MANUAL

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page's manual context to help answer it.

**Name**

Anonymous

**Email**

you@example.com

After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. [Privacy details](#).

### Question

Example: How do I reset this device or fix this error?

### Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question

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